

INDUSTRIAL FILMS

Metallized Laminates for Vacuum Insulation Panels

Item number: **V08523**



Description:

A laminate of two polyester films with enhanced metallization and a coex of LDPE/ LLDPE as sealing layer, with very high barrier compared to other commercially available laminates¹ for very long term vacuum insulation panel applications that require low MVTR and low GTR.

Product Specifications (typical values):

PROPERTY	TEST METHOD	V08523	
Thickness	—	91 3.6	[micron] [mil]
Area Yield	—	9.60 6770	[m ² /kg] [in ² /lb]
Heat Seal Strength Heat Seal Break Point	165°C, 4kg/cm ² , 2 sec	>3.0 >7614	[N/mm] [g/in]
Puncture Resistance	FTMS 101C 2065	160 [N]	37.9 [lb]
Puncture Resistance (Japanese Sting Strength)	JIS Z1707	14 [N]	4.4 [lb]
MVTR	ASTM F-1249-90 38°C 90% RH 100°F 90% RH	<0.015 <0.00065	[gr/m ² day] [gr/100in ² day]
GTR* (Gas Transmission Rate) @ 22°C/50% RH	Hanita's internal test method*	<12	[cc (STP)/ m ² /year]



appliances



construction



thermal
packaging



specialty

¹ For a sample comparison report of Hanita laminates with other commercially available laminates, please see "Comparison of Barrier of VIP Laminates - New PST Technology" under Technical Downloads on our site. More data can be provided by our technical support team tech.industrial@eu.averydennison.com. Please note that this footnote is applicable to all references to terms/durations mentioned in this data sheet.

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* GTR is the rate of gas permeation into a panel, while OTR is oxygen permeation rate through a flat film. As air contains mainly nitrogen and the application is VIP, gas permeation is a more relevant value for the film performance. Detailed test description can be found under "Hanita testing methodology for VIP" on our site.

Please note that the lifetime of the products will differ based on the type of application. For a specific indication of lifetime properties of the products related to a specific application, please contact the Avery Dennison Hanita technical support team tech.industrial@eu.averydennison.com. The lifetime indication given by the Avery Dennison Hanita technical support team is based on a calculation believed to be reliable but shall not constitute a guarantee or warranty.

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